

50. A TFT substrate as in claim 46, wherein the gate pad comprises at least a refractory metal film.

51. A TFT substrate as in claim 50, wherein the second pixel electrode pattern contacts the refractory metal film of the gate pad.

52. A TFT substrate as in claim 46, wherein the insulating film comprises a nitride film, SiN.

#### **REMARKS**

By this Preliminary Amendment, Applicant has amended the specification, amended claims 1 and 8 and added new claims 16-52. Accordingly, claims 1-52 remain pending in the application.

#### **CONCLUSION**

Based on the above amendments and remarks, Applicant respectfully requests that the Examiner consider this preliminary amendment, consider and examine this application, and pass the application to issue allowing pending claims 1-52. In the event that there are any outstanding matters remaining in the present application, the Examiner is invited to contact Kenneth D. Springer (Reg. No. 39,843) at (703) 715-0870 to discuss these matters.


If necessary, the Commissioner is hereby authorized in this, concurrent, and future replies to charge payment or credit any overpayment to Deposit Account No. 50-0238 for any additional fees required under 37 C.F.R. § 1.16 or under 37 C.F.R. § 1.17, particularly extension of time fees.

Respectfully submitted,

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Date: 7 July 2003

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**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

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METHOD FOR MANUFACTURING  
A LIQUID CRYSTAL DISPLAY

**STATEMENT OF STATUS AND SUPPORT FOR  
CHANGES TO THE CLAIMS UNDER 37 C.F.R. § 1.173(c)**

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Sir:

In the accompanying Preliminary Amendment, Applicant has amended claims  
1 and 8, and added new claims 16-52.

**Status of Claims**

Claims 1-52 all remain pending in this application

**Support for Claim Changes****Claim 1**

Claim 1 has been amended to specifically recite etching the insulating layer over a portion of the gate pad by a fourth lithography process, and forming first and second pixel electrode patterns, where the second pixel electrode pattern acts to connect the gate pad of the gate-pad connecting areas to the pad electrode of the pad area using a fifth photolithography process. Support in the specification for these features of claim 1 may be found, for example, at col. 5, lines 51-63 (see FIG. 10), and col. 6, lines 5-13 (see FIG. 12).

**Claim 8**

Claim 8 has been amended to specifically recite forming first and second pixel electrode patterns, where the second pixel electrode pattern is connected to the first metal film of the pad area using a fifth photolithography process. Support in the specification for these features of claim 1 may be found, for example, at col. 6, lines 5-13 (see FIG. 12).

**New Claims 16-52**

Support in the specification for the features of claim 16 may be found, for example, in FIGs. 7-16 and the description in the accompanying text at col. 4, line 55 - col. 7, line 16.

Support in the specification for the features of claims 17-18, 24, and 48-50 may be found, for example, at col. 3, lines 7-10 and col. 4, lines 63-65.

Support in the specification for the features of claims 19 and 26 may be found, for example, at col. 3, lines 7-10 and col. 4, lines 63-65.

Support in the specification for the features of claims 20, 27 and 52 may be found, for example, at col. 3, lines 7-10 and col. 5, lines 24-27.

Support in the specification for the features of claims 21 and 28 may be found, for example, at col. 6, lines 5-13 and col. 7, lines 13-16.

Support in the specification for the features of claims 22, 29 and 47 may be found, for example, from FIGs. 11, 12 and 16, and the description in the accompanying text at col. 5, line 64 - col. 6, line 13.

Support in the specification for the features of claim 23 may be found, for example, in FIGs. 7-16 and the description in the accompanying text at col. 4, line 55 - col. 7, line 16.

Support in the specification for the features of claim 25 may be found, for example, in FIGs. 13-16 and the description in the accompanying text at col. 6, line 21 - col. 7, line 12.

Support in the specification for the features of claims 30, 31, 34, 35, 38, 39, 42 and 43 may be found, for example, at col. 5, lines 6-12 and col. 6, lines 32-37.

Support in the specification for the features of claims 32, 36, 40 and 44 may be found, for example, found, for example, at col. 5, lines 30-32 and col. 6, lines 48-50.

Support in the specification for the features of claims 33, 37, 41 and 45 may be found, for example, from col. 6, lines 10-12 and col. 7, lines 13-16.

Support in the specification for the features of claim 46 may be found, for

example, from FIGs. 11 and 12 and the description in the accompanying text at col. 5, line 64 - col. 6, line 13.

Support in the specification for the features of claim 51 may be found, for example, at col. 6, lines 5-13 and col. 7, lines 13-16.

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